



## RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/633,698  
Source: PIPE  
Date Processed by STIC: 8-13-03

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/efc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry directly to:  
U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7<sup>th</sup> Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202  
Or  
U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

# Raw Sequence Listing Error Summary

## ERROR DETECTED

## SUGGESTED CORRECTION

SERIAL NUMBER: 10/633, 698

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1      Wrapped Nucleics  
    Wrapped Aminos  
The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
- 2      Invalid Line Length  
The rules require that a line not exceed 72 characters in length. This includes white spaces.
- 3      Misaligned Amino  
    Numbering  
The numbering under each 5<sup>th</sup> amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
- 4      Non-ASCII  
The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
- 5      Variable Length  
Sequence(s)      contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
- 6      PatentIn 2.0  
    "bug"  
A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s)     . Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
- 7      Skipped Sequences  
    (OLD RULES)  
Sequence(s)      missing. If intentional, please insert the following lines for each skipped sequence:  
(2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  
(i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)  
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  
This sequence is intentionally skipped  
  
Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
- 8      Skipped Sequences  
    (NEW RULES)  
Sequence(s)      missing. If intentional, please insert the following lines for each skipped sequence.  
<210> sequence id number  
<400> sequence id number  
000
- 9      Use of n's or Xaa's  
    (NEW RULES)  
Use of n's and/or Xaa's have been detected in the Sequence Listing.  
Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.  
In <220> to <223> section, please explain location of n or Xaa; and which residue n or Xaa represents.
- 10 X Invalid <213>  
    Response  
Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence
- 11      Use of <220>  
Sequence(s)      missing the <220> "Feature" and associated numeric identifiers and responses.  
Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.  
(See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
- 12      PatentIn 2.0  
    "bug"  
Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
- 13      Misuse of n  
n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide.



OIPE

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/633,698

DATE: 08/13/2003

TIME: 08:30:44

Input Set : A:\1581.0770001.seqlist.txt

Output Set: N:\CRF4\08132003\J633698.raw

3 <110> APPLICANT: Quinn, Conrad P  
 4 Foster, Keith A  
 5 Chaddock, John A  
 7 <120> TITLE OF INVENTION: Methods and Compounds for the Treatment of Mucus  
 Hypersecretion

9 <130> FILE REFERENCE: 1581.0770001  
 C--> 11 <140> CURRENT APPLICATION NUMBER: US/10/633,698  
 C--> 11 <141> CURRENT FILING DATE: 2003-08-05

11 <150> PRIOR APPLICATION NUMBER: 09/763,669  
 12 <151> PRIOR FILING DATE: 1999-08-25  
 14 <150> PRIOR APPLICATION NUMBER: PCT/GB99/02806  
 15 <151> PRIOR FILING DATE: 1999-08-25  
 17 <150> PRIOR APPLICATION NUMBER: GB 9818548.1  
 18 <151> PRIOR FILING DATE: 1998-08-25  
 20 <160> NUMBER OF SEQ ID NOS: 8  
 22 <170> SOFTWARE: PatentIn version 3.2

24 <210> SEQ ID NO: 1  
 25 <211> LENGTH: 23  
 26 <212> TYPE: PRT  
 27 <213> ORGANISM: Influenza virus  
 29 <400> SEQUENCE: 1

31 Gly Leu Phe Gly Ala Ile Ala Gly Phe Ile Glu Asn Gly Trp Glu Gly  
 32 1 5 10 15  
 35 Met Ile Asp Gly Trp Tyr Gly  
 36 20

39 <210> SEQ ID NO: 2  
 40 <211> LENGTH: 12  
 41 <212> TYPE: PRT

42 <213> ORGANISM: Substance P peptide sequence  
 44 <400> SEQUENCE: 2  
 46 Arg Pro Lys Pro Gln Gln Phe Phe Gly Leu Met Cys  
 47 1 5 10

50 <210> SEQ ID NO: 3  
 51 <211> LENGTH: 12  
 52 <212> TYPE: PRT

53 <213> ORGANISM: Substance P peptide sequence with N-terminal Cys  
 55 <400> SEQUENCE: 3

57 Cys Arg Pro Lys Pro Gln Gln Phe Phe Gly Leu Met  
 58 1 5 10

61 <210> SEQ ID NO: 4  
 62 <211> LENGTH: 4  
 63 <212> TYPE: PRT

64 <213> ORGANISM: Factor Xa  
 67 <220> FEATURE:

**Does Not Comply  
 Corrected Diskette Needed**

*Invalid response  
 see item 10 on error  
 summary sheet.*

*Same*

## RAW SEQUENCE LISTING

DATE: 08/13/2003

PATENT APPLICATION: US/10/633,698

TIME: 08:30:44

Input Set : A:\1581.0770001.seqlist.txt

Output Set: N:\CRF4\08132003\J633698.raw

```

68 <221> NAME/KEY: MISC_FEATURE
69 <222> LOCATION: (4)..(4)
70 <223> OTHER INFORMATION: specific cleavable peptide bond
72 <400> SEQUENCE: 4
74 Ile Glu Gly Arg
75 1
78 <210> SEQ ID NO: 5
79 <211> LENGTH: 5
80 <212> TYPE: PRT
81 <213> ORGANISM: Enterokinase
84 <220> FEATURE:
85 <221> NAME/KEY: MISC_FEATURE
86 <222> LOCATION: (5)..(5)
87 <223> OTHER INFORMATION: specific cleavable peptide bond
89 <400> SEQUENCE: 5
91 Asp Asp Asp Asp Lys
92 1 5
95 <210> SEQ ID NO: 6
96 <211> LENGTH: 8
97 <212> TYPE: PRT
98 <213> ORGANISM: TEV protease
101 <220> FEATURE:
102 <221> NAME/KEY: misc_feature
103 <222> LOCATION: (2)..(3)
104 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
106 <220> FEATURE:
107 <221> NAME/KEY: misc_feature
108 <222> LOCATION: (5)..(5)
109 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
111 <220> FEATURE:
112 <221> NAME/KEY: MISC_FEATURE
113 <222> LOCATION: (7)..(8)
114 <223> OTHER INFORMATION: specific cleavable peptide bond
116 <400> SEQUENCE: 6
W--> 118 Glu Xaa Xaa Tyr Xaa Gln Ser Gly
119 1 5
122 <210> SEQ ID NO: 7
123 <211> LENGTH: 8
124 <212> TYPE: PRT
125 <213> ORGANISM: Precission
128 <220> FEATURE:
129 <221> NAME/KEY: MISC_FEATURE
130 <222> LOCATION: (6)..(7)
131 <223> OTHER INFORMATION: specific cleavable peptide bond
133 <400> SEQUENCE: 7
135 Leu Glu Val Leu Phe Gln Gly Pro
136 1 5
139 <210> SEQ ID NO: 8
140 <211> LENGTH: 6

```

## RAW SEQUENCE LISTING

DATE: 08/13/2003

PATENT APPLICATION: US/10/633,698

TIME: 08:30:44

Input Set : A:\1581.0770001.seqlist.txt

Output Set: N:\CRF4\08132003\J633698.raw

141 <212> TYPE: PRT  
142 <213> ORGANISM: Thrombin  
145 <220> FEATURE:  
146 <221> NAME/KEY: MISC\_FEATURE  
147 <222> LOCATION: (4)..(5)  
148 <223> OTHER INFORMATION: specific cleavable peptide bond  
150 <400> SEQUENCE: 8  
152 Leu Val Pro Arg Gly Ser  
153 1 5

RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/10/633,698

DATE: 08/13/2003  
TIME: 08:30:45

Input Set : A:\1581.0770001.seqlist.txt  
Output Set: N:\CRF4\08132003\J633698.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:6; Xaa Pos. 2,3,5

**VERIFICATION SUMMARY**

PATENT APPLICATION: US/10/633,698

DATE: 08/13/2003

TIME: 08:30:45

Input Set : A:\1581.0770001.seqlist.txt

Output Set: N:\CRF4\08132003\J633698.raw

L:11 M:270 C: Current Application Number differs, Replaced Current Application No

L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:118 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0